AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-29. (Canceled).

30. (Currently amended) A catheter assembly, comprising:

a catheter including at least one lumen; and

a connector including a distal end attached to a proximal end of the catheter and a

passageway in fluid communication with the at least one lumen, a proximal

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portion of the passageway including an engagement feature configured to

connect an end of an instrument to the connector, a distal portion of the

passageway including a built-in valve longitudinally fixed with respect to the

connector having a closed proximal end with a slit and an open distal end, the

valve proximal end distal of the engagement feature; and

a tunneler, wherein the engagement feature engages a tip of the tunneler upon

insertion of the tunneler tip into the proximal portion of the passageway.

31. (Previously presented) The catheter assembly according to claim 30, wherein the

valve includes a wall defining a lumen from the proximal end to the distal end, the wall configured

to guide a proximal end of a guidewire from the valve distal end through the slit in the valve

proximal end.

32. (Previously presented) The catheter assembly according to claim 30, wherein the

connector comprises a material having a hardness in the range of about 90 Shore A to about 90

Shore D, and wherein the valve comprises a material having a hardness in the range of about 40

Shore A to about 60 Shore A.

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33. (Previously presented) The catheter assembly according to claim 30, wherein the

engagement feature comprises an O-ring, and wherein a wall defining the proximal portion of the

passageway proximal of the O-ring is tapered.

34-39. (Cancelled).

40. (Previously presented) The catheter assembly according to claim 30, wherein the

connector includes an tapered outer surface at a proximal end thereof.

41. (Previously presented) The catheter assembly according to claim 40, further

comprising a syringe adaptor including a distal end configured to slide over the tapered proximal

end of the connector housing and a proximal opening to receive a male luer.

42. (Cancelled).

43. (Previously presented) The catheter assembly according to claim 30, wherein the

valve opens by insertion of a medical device through the valve.

44. (Previously presented) The catheter assembly according to claim 30, wherein the

valve proximal end is longitudinally fixed with respect to the connector.

45. (Previously presented) The catheter assembly according to claim 30, wherein the

valve proximal end is fixed relative to the engagement feature.

46. (Previously presented) The catheter assembly according to claim 30, wherein the

engagement feature includes a projection into the passageway.

47. (Previously presented) The catheter assembly according to claim 46, wherein the

projection has a reduced diameter relative to an inside diameter of the passageway on a proximal

side and a distal side of the projection.

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